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(54) Title: MASK REPAIR WITH ELECTRON BEAM-INDUCED CHEMICAL ETCHING

(57) Abstract: The present invention discloses a method of fabricating and repairing a mask without damage and an apparatus including a holder to mount a substrate; a stage to position the holder in a chamber; a pumping system to evacuate the chamber; an imaging system to locate an opaque defect in the substrate; a gas delivery system to dispense a reactant gas towards the defect; and an electron delivery system to direct electrons towards the opaque defect.

INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{lem:minimum documentation searched (classification system followed by classification symbols)} IPC \ 7 \ G03F$

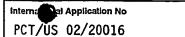
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB

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X Fur	ther documents are listed in the continuation of box C.	Palent family members are listed	in annex.		
"A" docum consi "E" earlier filing "L" docum which citatic "O" docum other "P" docum	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) lent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	'T' later document published after the international (iling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family			
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2	7 August 2003	03/09/2003			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Thiele, N			

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